

FIG. 1
(PRIOR ART)

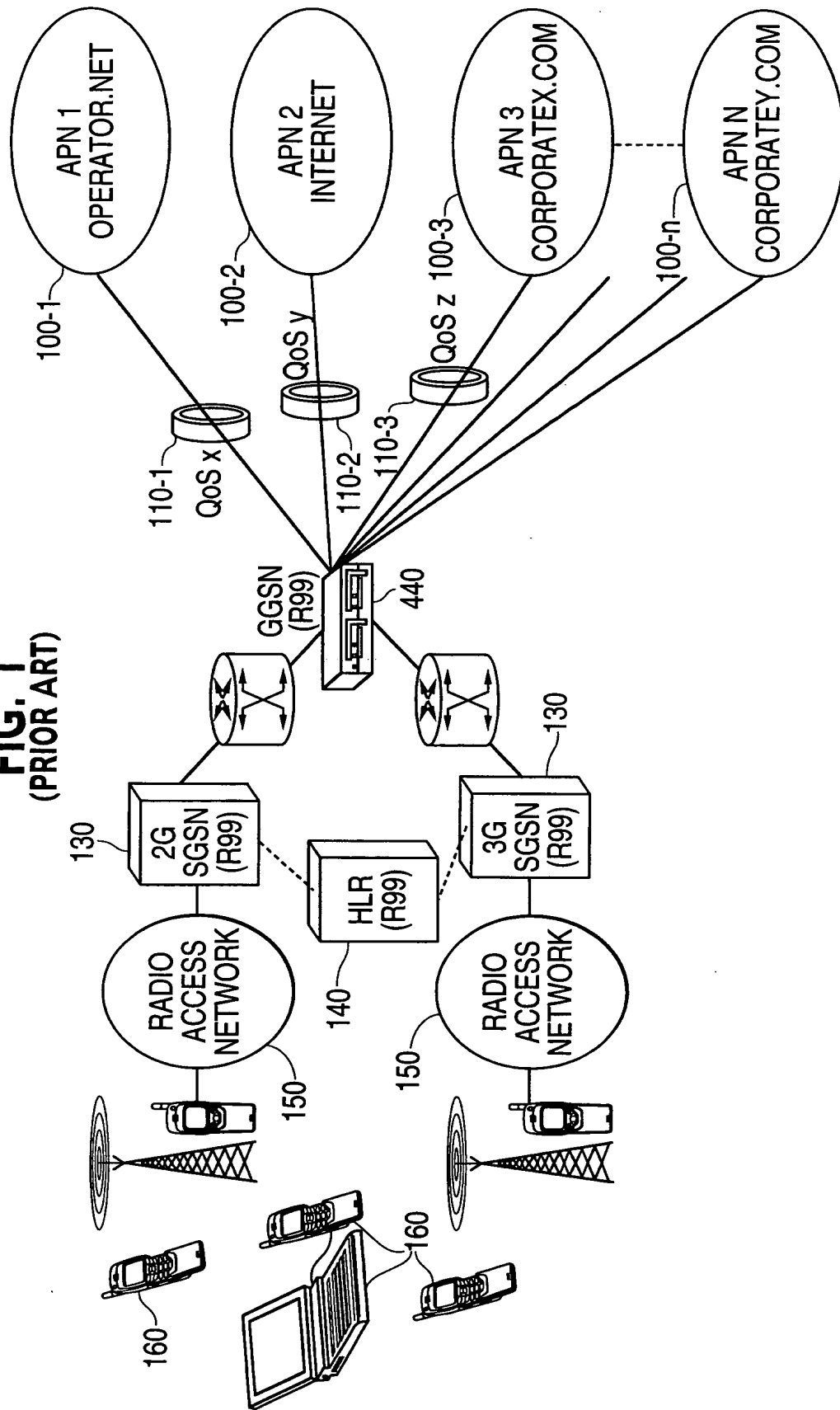


FIG. 2
(PRIOR ART)

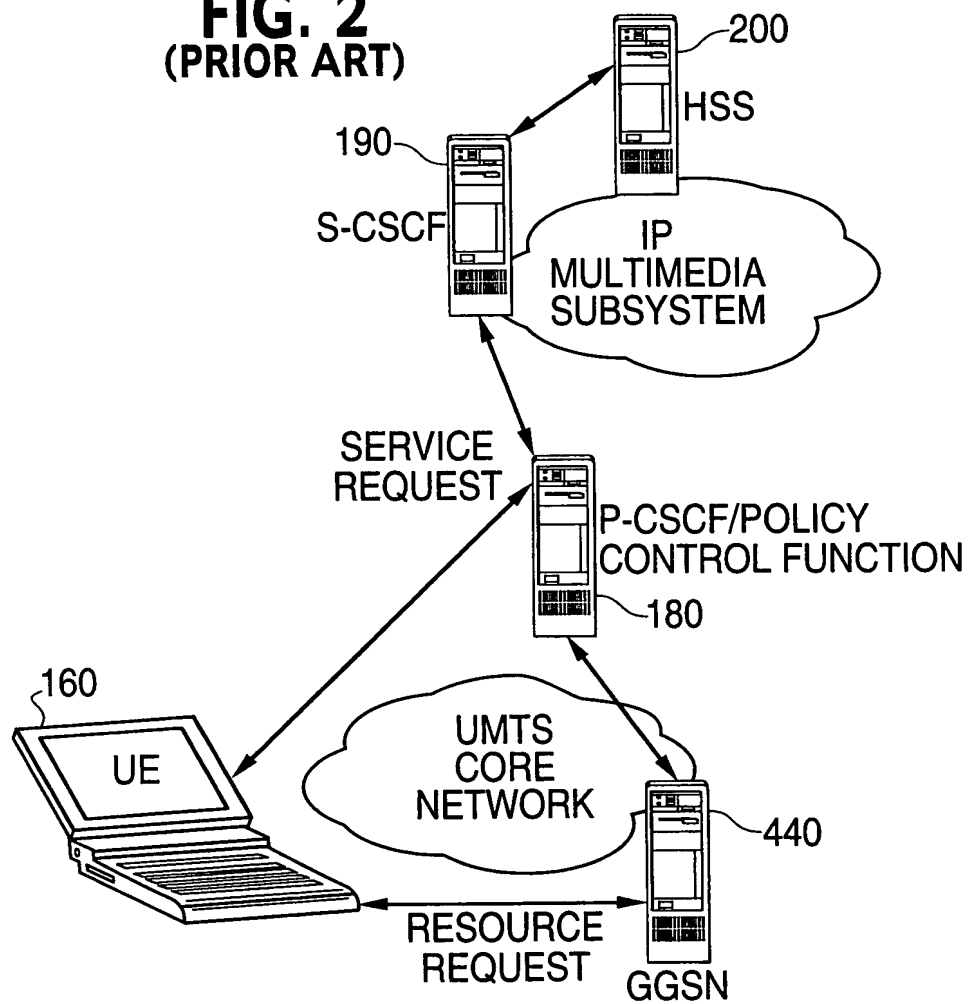
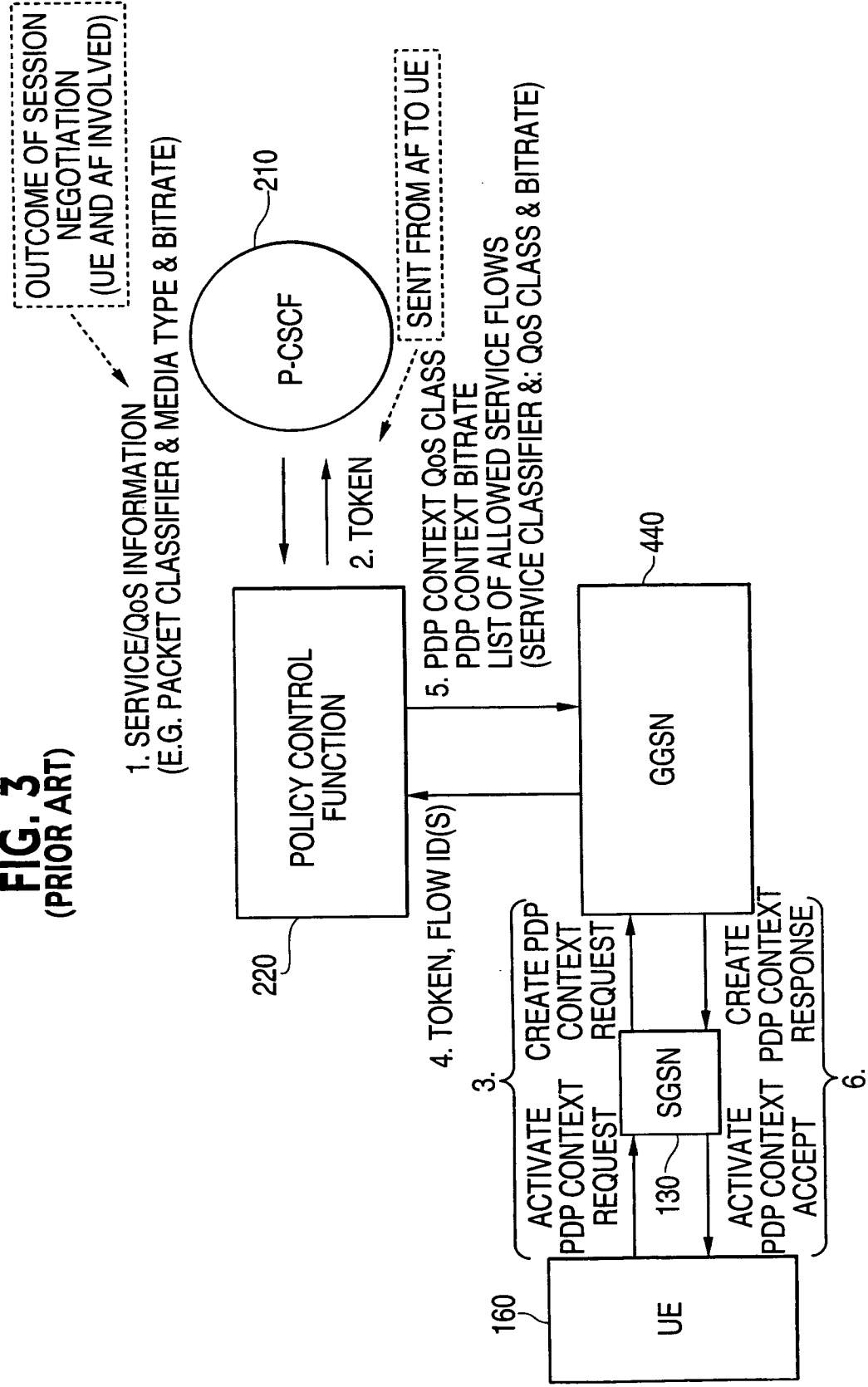


FIG. 3
(PRIOR ART)



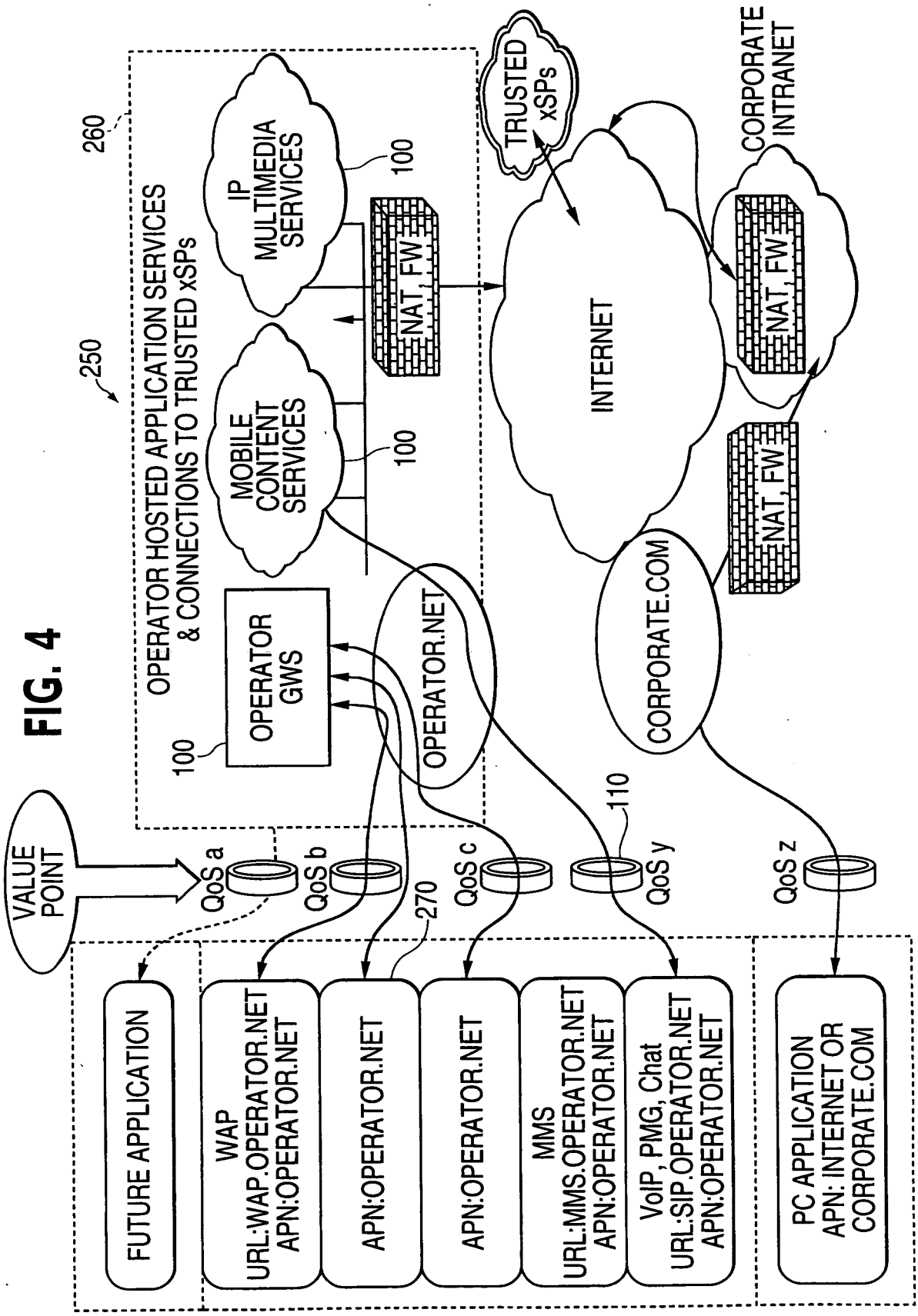


FIG. 4

FIG. 5

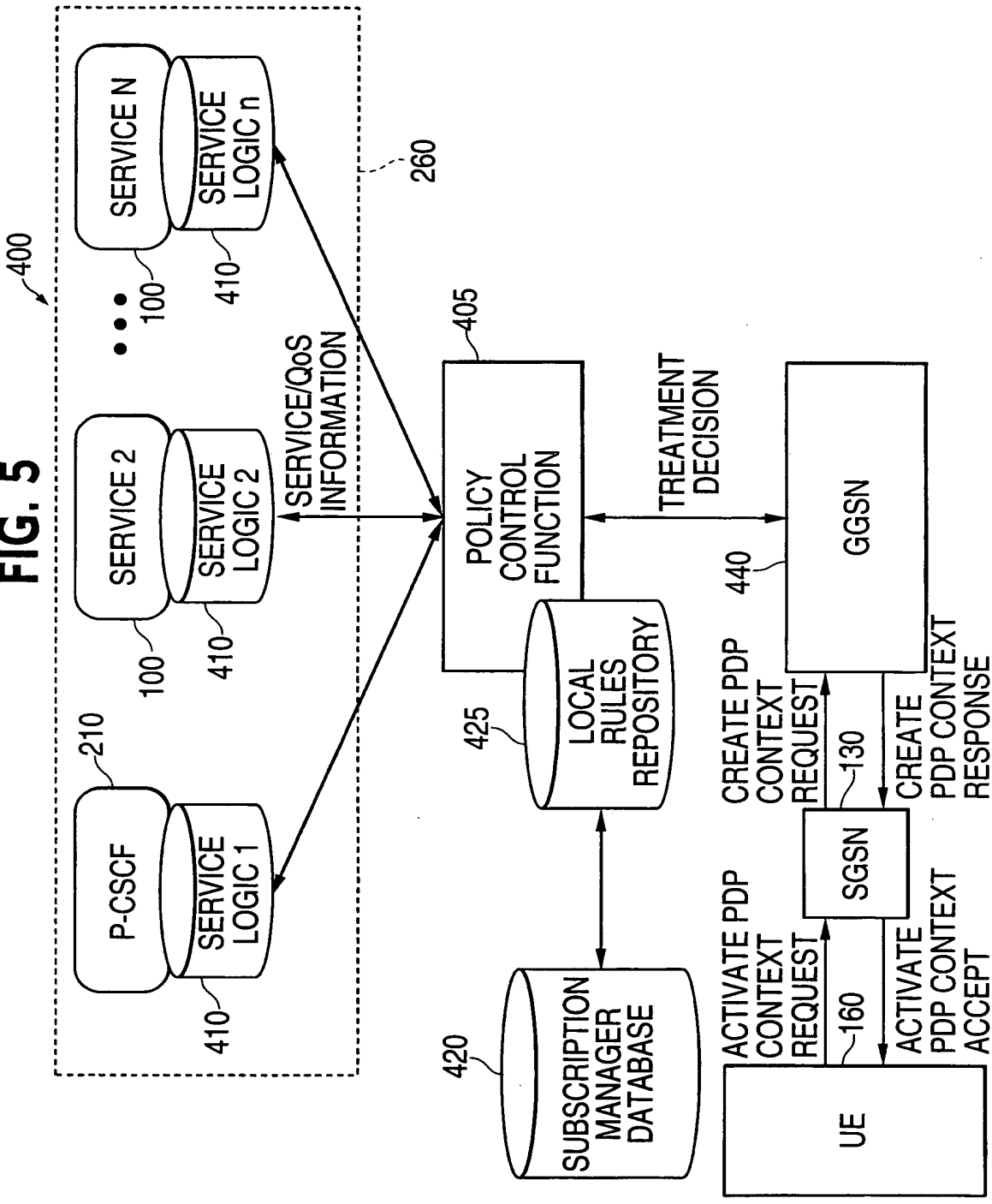


FIG. 6

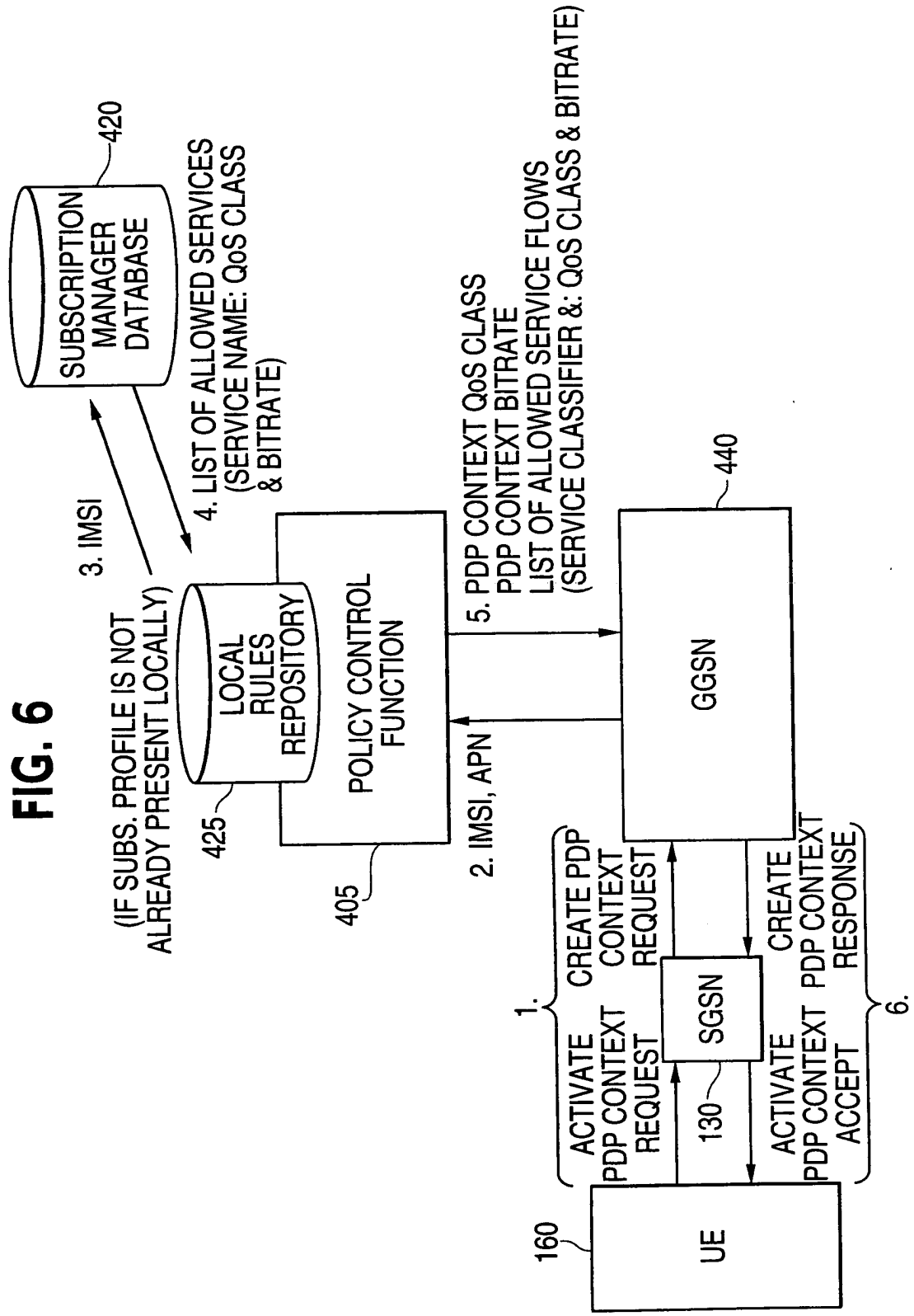


FIG. 7

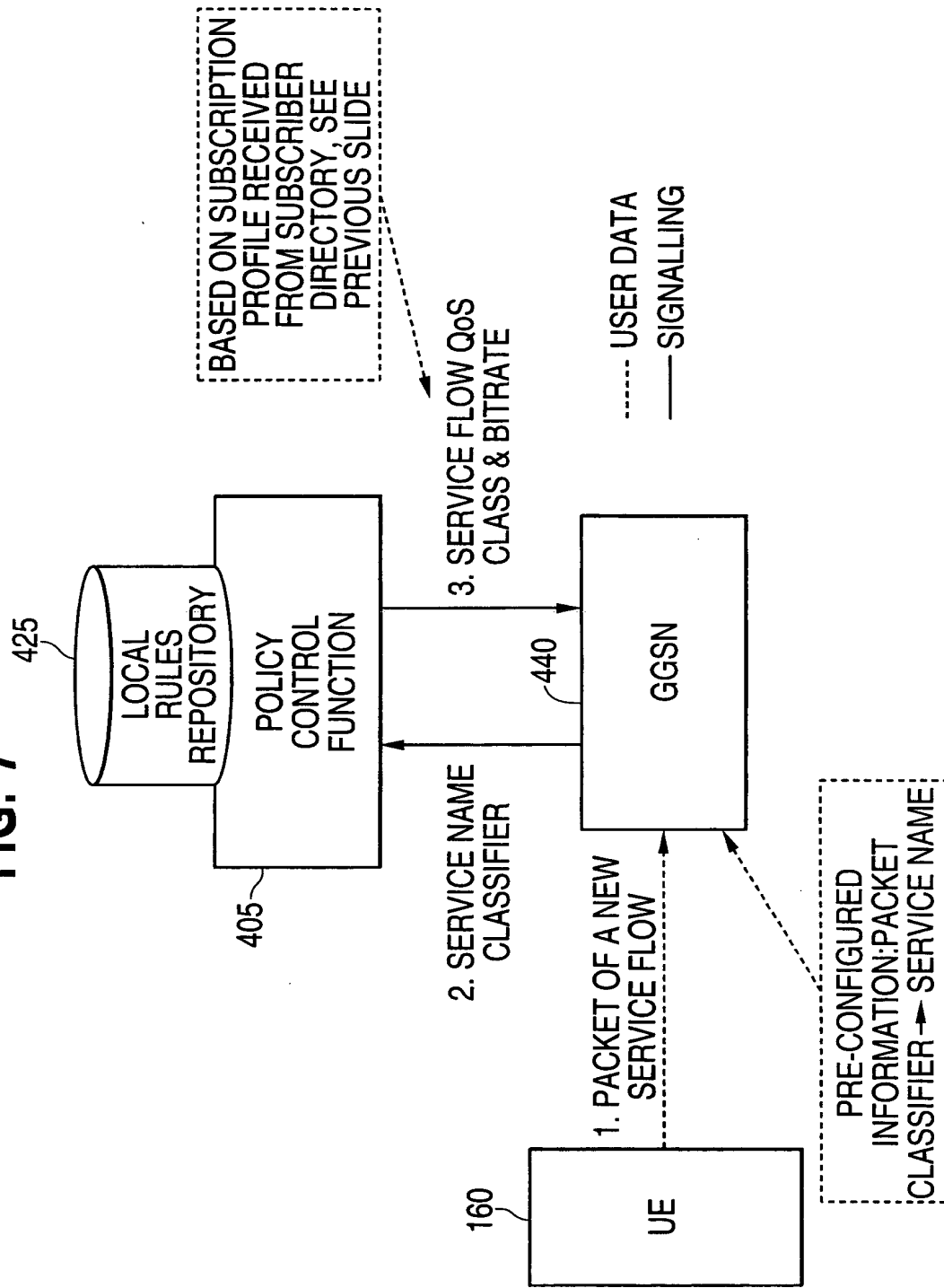


FIG. 8

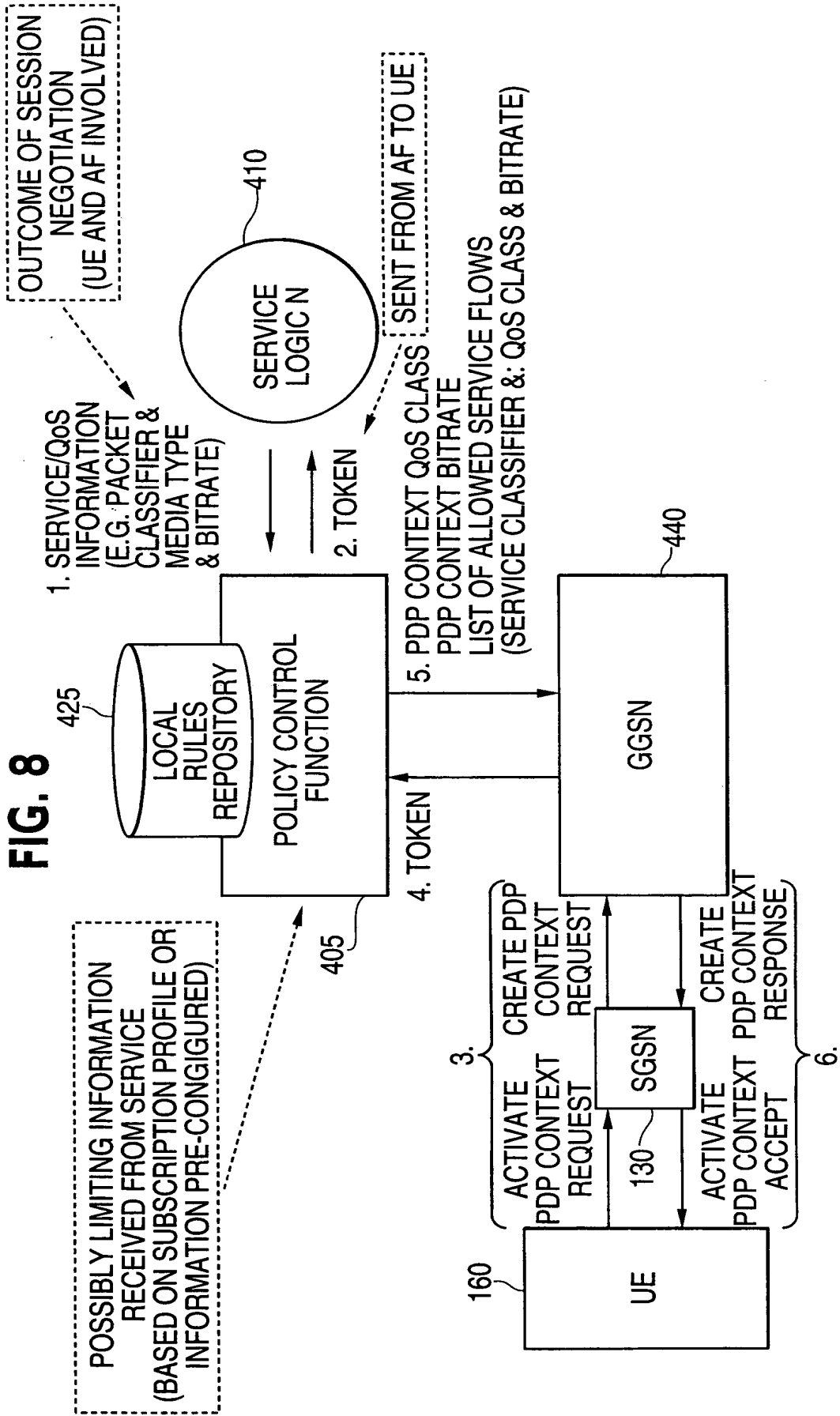


FIG. 9

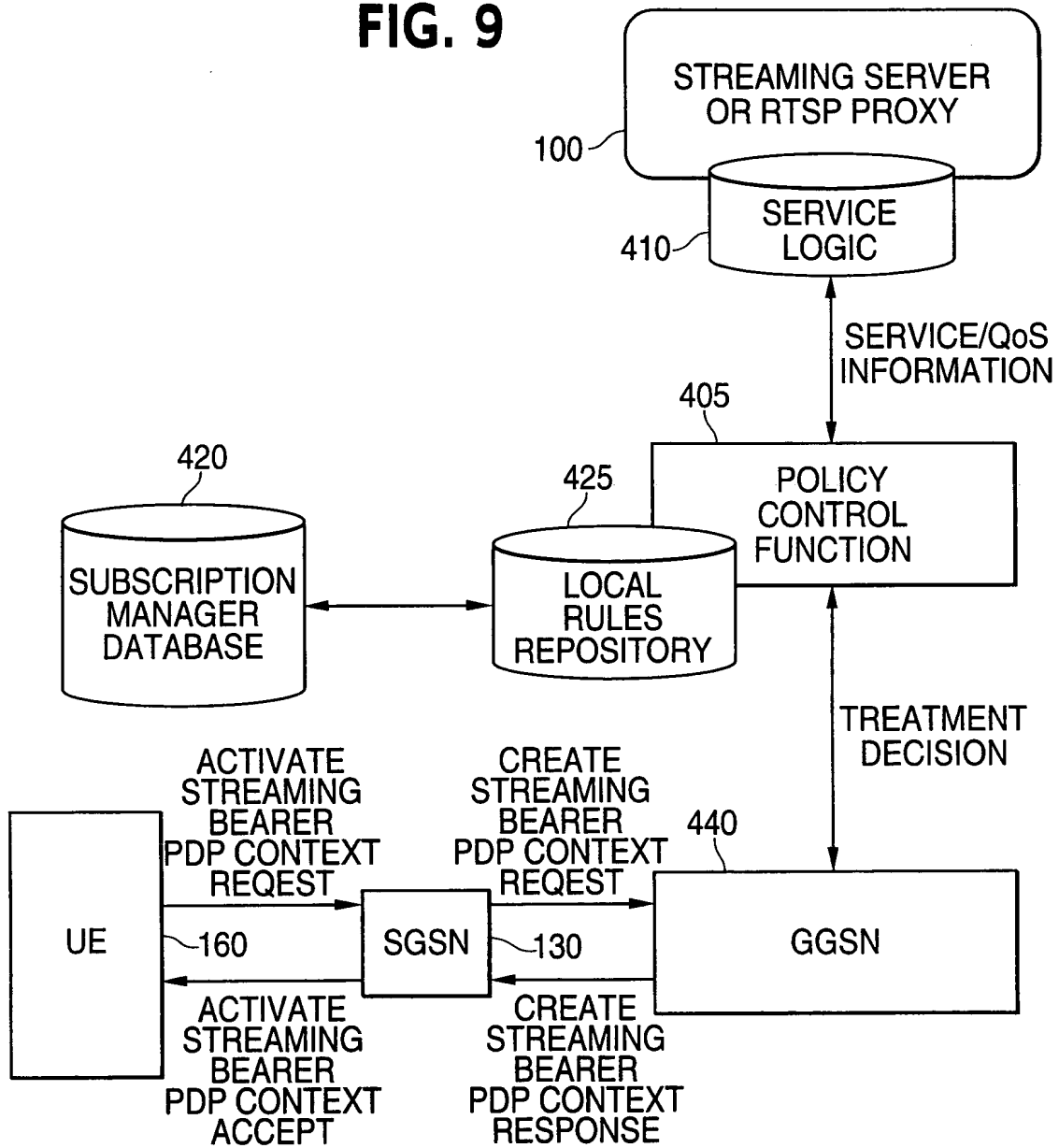


Figure 1 illustrates a network architecture for QoS management. The diagram shows the following components and their interactions:

- UE (160):** User Equipment.
- SGSN (130):** Serving GPRS Support Node.
- GGSN (120):** Gateway GPRS Support Node.
- QoS Management System (405):** Manages QoS parameters.
- Policy Control Function (425):** Coordinates QoS policy enforcement.
- Subscription Manager Database (420):** Stores subscription data.
- Service Management System:** Manages service data.
- Service Domain:** The overall network environment.

The interactions are numbered 1 through 6:

- 1. ACTIVATE PDP CONTEXT. REQ.:** UE sends a request to SGSN to activate a PDP context.
- 2. IMSI, AP:** SGSN sends the IMSI and APN to the Policy Control Function.
- 3. IMSI, AP:** Policy Control Function sends the IMSI and APN to the Subscription Manager Database.
- 4. LIST OF ALLOWED SERVICES (SERVICE NAME: QoS CLASS-BITRATE):** Subscription Manager Database returns a list of allowed services to the Policy Control Function.
- 5. PDP CONTEXT QoS CLASS, PDP CONTEXT BITRATE, LIST OF ALLOWED SERVICES (SERVICE NAME: QoS CLASS-BITRATE):** Policy Control Function sends this information to the GGSN.
- 6. ACTIVATE PDP CONTEXT. ACCEPT.:** GGSN sends an acceptance message to SGSN to activate the PDP context.

